Approved for use through 10/31/2002. OMB 0651-0032

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UTILITY **PATENT APPLICATION TRANSMITTAL**

03248.00038 Attorney Docket No. First Inventor Anthony C. Mulligan, et al. Aligned Composite Structrues For Mitigation Of Impact Damage And Resistance To Wear In Dynamic Environments

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))	xpress Mail Label No. EL 82075	56232 US				
APPLICATION ELEMENTS	ADDDEGO TO: Ass	sistant Commissioner for Patents				
See MPEP chapter 600 concerning utility patent application contents.		x Patent Application ashington, DC 20231				
1. See Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) 2. Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages (preferred arrangement set forth below) - Descriptive title of the Invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table,	7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. ☐ Computer Readable Form (CRF) b. Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 copies); or ii. ☐ paper c. ☐ Statements verifying identity of above copies					
or a computer program listing appendix - Background of the Invention	or a computer program listing appendix ACCOMPANYING APPLICATIONS PART					
 Brief Summary of the Invention Brief Description of the Drawings (if filed) Detailed Description Claim(s) Abstract of the Disclosure 	9. Assignment Papers (cover sheet & document(s)) 10. 37 C.F.R.§3.73(b) Statement Power of (when there is an assignee) Attorney 11. English Translation Document (if applicable)					
4. Drawing(s) (35 U.S.C.113) [Total Sheets 4]	12. Information Disclos	<u> </u>				
5. Oath or Declaration [Total Pages 3]	Statement (IDS)/P	PTO-1449 Citations				
a. Newly executed (original or copy)	13. ☐ Preliminary Amend 14. ☒ Return Receipt Po					
b. Copy from a prior application (37 CFR 1.63 (d)) (for a continuation/divisional with Box 18 completed)	(Chauld be appointed to the standard)					
i. DELETION OF INVENTOR(S)		Priority Document(s)				
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).	1.63(d)(2) and 1.33(b). (b)(2)(B)(i). Applicant must attach form PTO/SB/35					
6. Application Data Sheet. See 37 CFR 1.76		of Mailing Via U.S. Express Mail				
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) Of prior application No. Prior application information Examiner Group / Art Unit: For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.						
	DENCE ADDRESS	inted application parts.				
☐ Customer Number or Bar Code Label or ☐ Correspondence address below (Insert Customer No. or Attach bar code label here)						
Name						
Banner & Witcoff, Ltd.						
Address 10 South Wacker Drive						
Suite 3000						
City Chicago State	Illinois Zip Cod	de 60606				
Country United States of America Telephone	312-715-1000 Fa	ax 312-715-1234				
Name (Print/Type) Rebecca P. Rokos Registration No. (Attorney/		nt) 42,109				
Signature P. Rokes	D	December 4, 2001				

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FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

**or number previously paid, if greater; For Reissues, see above

Complete if Known		
Application Number	Not Yet Assigned	
Filing Date	Concurrently Herewith	.,,,,
First Named Inventor	Anthony C. Mulligan	
Examiner Name	Not Yet Assigned	
Group / Art Unit	Not Yet Assigned	
Attornov Docket No	03248 00038	

TOTAL AMOUNT OF PAYMENT (\$) 496 Attorney Docket No. METHOD OF PAYMENT (check one) FEE CALCULATION (continued) The Commissioner is hereby authorized to charge 3. ADDITIONAL FEES \boxtimes 1. indicated fees and credit any over payments to: Small Entity Entity Deposit Fee Fee Description Code (\$) Code (\$) 01-0850 Paid Account 105 130 205 65 Number Surcharge - late filing fee or oath 127 50 227 25 Surcharge - late provisional filing fee or cover sheet. Deposit Account Banner & Witcoff, Ltd. 139 130 139 130 Non-English specification Name 147 2,520 147 2,520 For filing a request for reexamination Charge Any Additional Fee Required 112 920* 112 920* Requesting publication of SIR prior to Under 37 CFR 1 16 and 1.17 Examiner action Applicant claims small entity status. 113 1,840* 113 1,840* Requesting publication of SIR after See 37 CFR 1.27 Examiner action Payment Enclosed: 115 110 215 55 Extension for reply within first month 116 ☐ Check 400 216 200 Extension for reply within second ☐ Credit card ☐ Money ☐ Other Order 117 920 217 460 FEE CALCULATION Extension for reply within third month 118 1,440 218 720 Extension for reply within fourth 1. BASIC FILING FEE month Large **Entity Small** Entity 128 1,960 228 980 Extension for reply within fifth month Fee Fee Fee Fee Fee Description 119 320 219 160 Notice of Appeal Code (\$) Code (\$) Fee Paid 120 320 220 160 Filing a brief in support of an appeal 101 740 201 370 Utility filing fee 370 121 280 221 140 Request for oral hearing 106 330 206 165 Design filing fee Petition to institute a public use 138 107 1.510 510 207 255 Plant filing fee 138 1.510 proceeding 108 740 208 370 Reissue filing fee 140 110 240 55 Petition to revive - unavoidable 114 160 214 80 Provisional filling fee 141 1.280 241 640 Petition to revive - unintentional 142 1,280 242 Utility issue fee (or reissue) 640 SUBTOTAL (1) (\$) 370 143 460 243 230 Design issue fee 2. EXTRA CLAIM FEES 144 620 244 310 Plant issue fee Extra Fee from 122 Fee 130 122 130 Petitions to the Commissioner Claims below Paid 123 50 123 50 Processing fee under 37 CFR 1.17 (q) Total Claims 16 -20 0 0 9 Submission of Information Disclosure 126 180 126 Independent 180 6 -3 * 3 42 126 Claims Recording each patent assignment Multiple 581 40 581 40 per property (times number of 0 Dependent properties) 146 740 246 370 Filing a submission after final rejection Large **Entity Small** Entity (37 CFR § 1.129(a)) Fee Fee Fee Fee Fee Description 149 740 249 370 For each additional invention to be Code (\$) Code (\$) examined (37 CFR § 1 129(b)) 103 18 203 9 Claims in excess of 20 102 84 202 42 179 Independent claims in excess of 3 740 279 370 Request for Continued Examination (RCE) 104 280 204 140 Multiple dependent claim, if not paid 169 900 169 900 Request for expedited examination ** Reissue independent claims over of a design application 109 84 209 42 original patent ** Reissue claims in excess of 20 and 110 18 210 9 over original patent Other fee (specify) _ SUBTOTAL (2) (\$) 126*Reduced by Basic Filing Fee Paid SUBTOTAL (3)

SUBMITTED BY			-	C	omplete (if applicable)	
Name (Print/Type)	Rebecca P. Rokos	Registration No. Attorney/Agent)	42,109	Telephone	312-715-1000	
Signature	Rebicce	P. Rokes		Date	December 4, 2001	

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Date Deposited: December 4, 2001

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> U.S. Patent and Trademark Office Box Patent Application P. O. Box 2327 Washington, D.C. 22202

Application Number:

Not Yet Assigned

Filing Date:

Concurrently Herewith

First Named Inventor:

Anthony C. Mulligan, et al.

Group Art Unit:

Not Yet Assigned

Examiner Name:

Not Yet Assigned

Attorney Docket No.

03248.00038

- 1. Utility Patent Application Transmittal;
- 2. Fee Transmittal for FY 2002:
- 3. Application Data Sheet;
- 4. Patent Application (33 sheets including Abstract):
- 5. Drawings (4 sheets with Fibures 1-4, 5a-5c and 6-7);
- Joint Declaration for Patent Application; and 6.
- 7. Return Postcard